

Product Description

StatRez 225 is a 3-component, high performance aliphatic polyester urethane floor coating that is electrically active within resistance range requirements for **static dissipative** or **conductive** flooring. It is designed to provide static control properties, which prevent electrostatic damage to electronic products and equipment, limit the ability of personnel to build up a charge on their person and quickly remove a charge on a person or equipment. This coating features high abrasion and scratch resistance, exterior durability, easy soil release and excellent resistance to a broad range of chemicals.

StatRez 225 is formulated to meet the **static dissipative** resistance range of 1 million to 1 billion ohms (1E6-1E9) resistance as tested per ESD Association test method 7.1 when applied over a prime coat or isolation coat of Epoxy 400. The product can meet the **conductive** resistance range of 25,000 to 1 million ohms (2.5E4-1E6) resistance when used with StatRez 150 Conductive Primer.

Regardless of the floor's resistance range, workers interacting with the floor and equipment resting or rolling on the floor must be connected to it by the use of conductive footwear, ESD shoe straps or conductive wheels. This is a requirement for all floors of these types.

COLOR

StatRez 225 is available in Wheat, Sand, Buff, Adobe, Red Brick, Concrete Gray, Delta Fog, Sterling and Slate.

TYPICAL USES

- Military/ Aerospace/ Aircraft Hangars
- Electronics Manufacturing and Assembly
- Hazardous Industries (dust or explosion hazards)
- Clean Rooms
- Packaging Lines
- Pharmaceutical Facilities

ADVANTAGES

- UV stable
- Excellent abrasion resistance
- Highly resistant to many chemicals
- Maintains consistent electrical performance throughout the entire thickness of the system
- Does not depend on relative humidity for conductive properties
- Monolithic, seamless, non-porous
- More durable than ESD tile or sheet goods

LIMITATIONS

- Do not apply directly to concrete or cementitious substrates.
- Do not thin this product. Addition of thinners will void manufacturer's warranty.
- Epoxy 400 is required for priming substrates prior to applying StatRez 225.
- For conductive applications both Epoxy 400 and StatRez 150 Conductive Primer must be used under StatRez 225.

Technical Data

ELECTRICAL TRANSMISSION PROPERTIES

Point-to-Point or Point-to-Ground resistance per ESD 7.1

Static Dissipative.....	1E6- 1E9
Conductive.....	2.5E4-1E6
Body Voltage Generation.....	<15 volts
5000 Volt Charge Dissipation to <50 Volts.....	<0.1 sec.

PHYSICAL PROPERTIES

Mixing Ratio, by Volume.....	Supplied in pre-measured kits only
Viscosity, cps (77 degrees).....	600
Volatile Organic Compounds.....	<100g/l
Pot Life, (77 degrees, 1 quart mass).....	45 minutes

Please note: Pot Life is reduced by increasing temperature and/or mass.

Cure Times 16 mils..... (77 degrees)	Cure Times 16 mils..... (50 degrees)
Dry to Touch..... 4 hours	Dry to Touch..... 18hours
Recoat..... 12 hours	Recoat..... 24 hours
Light Traffic..... 16 hours	Light Traffic..... 36 hours
Full Cure..... 7 days	Full Cure..... 14 days

Please note: Cure times are influenced by both the ambient air temperature and the temperature of the concrete.

PERFORMANCE PROPERTIES

Abrasion Resistance(ASTM D 4060 CS17, 1000 cycles, 1000g load).....	30-40
Impact Resistance Direct/Reverse, inch/lbs (ASTM D 2794).....	160/160
Hardness, Pencil (ASTM D 3363).....	2H
Bond Strength to Concrete (ASTM D 4541).....	concrete fails before loss of bond

CHEMICAL AND STAIN RESISTANCE (ASTM D-1308 24 HOUR IMMERSION)

Urine.....	no effect
Blood.....	no effect
Whiskey.....	no effect
Black Ink.....	no effect
Brake Fluid.....	no effect
Gasoline.....	no effect
Skydrol 500B-4.....	no effect
Hydraulic Fluid #83282.....	no effect
Mineral Spirits.....	no effect
Xylene.....	no effect
MEK.....	film softened
50% Sodium Hydroxide.....	no effect
25% Hydrochloric Acid.....	no effect
25% Sulphuric Acid.....	no effect
25% Acetic Acid.....	no effect
25% Nitric Acid.....	film blistered

General Information

STORAGE

Store in original un-opened containers, indoors, between 60F (15.5C) and 90F (32C).

SHELF LIFE

Three months from date of manufacture when stored under proper conditions.

MOISTURE VAPOR EMISSIONS PRECAUTIONS

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings. Arizona Polymer Flooring can supply moisture remediation products. Consult our technical service department. Arizona Polymer Flooring and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

SURFACE PREPARATION

Concrete must be cured 30 days and be clean, dry, and structurally sound. Surface must be shot blasted or diamond ground to achieve an ICRI profile of SCP3 or greater. A properly prepared surface will have the texture of 80-100 grit sandpaper. If the surface is diamond ground, use 20-30 grit diamonds and vacuum the floor twice to remove concrete dust. Excessive dust in the pores of the concrete can compromise adhesion. Adhere strictly to guidelines listed in the Arizona Polymer Flooring Surface Preparation Manual. Previously coated surfaces must be mechanically cleaned and abraded with 80-100 mesh sandpaper prior to application.

MIXING INSTRUCTIONS

Pot life is 45 minutes at 77 degrees. Work times are shortened by higher temperatures. Pouring material on floor immediately after mixing will extend work time. Mix Part A well, bringing settled pigments up from bottom of container before adding Part B and Part C. **Add Part B to the container containing Part A. Mix carefully for 2 full minutes using a low-speed drill, scraping the bottom and sides of the mixing vessel. Then add Part C Colorpack and mix for an additional 2 minutes until completely uniform.**

APPLICATION RECOMMENDATIONS

Conductive application (StatRez PC 225C system)

1. Epoxy 400 Isolation coat
2. StatRez 150 Conductive Primer
3. StatRez 225 Topcoat
4. StatRez 225 Topcoat

Static dissipative application (StatRez PC 225 system)

1. Epoxy 400 Isolation coat
2. StatRez 225 Topcoat
3. StatRez 225 Topcoat

StatRez 225 may be applied by notched squeegee followed by backrolling. Application rate should be kept at 250-275 sq. ft. per gallon. Do not thin. Addition of thinners will void manufacturer's warranty. For detailed installation instructions, see Arizona Polymer Flooring Application Manual.

HANDLING PRECAUTIONS

Material is combustible. Extinguish all flames, pilot lights and electric motors until all vapors are gone and the coating is hard. The vapor is harmful. Use only with adequate ventilation/or appropriate cartridge-type respirator. Avoid contact with skin; wear protective gloves. Read Material Safety Data Sheet before using.

Technical Data

SLIP AND FALL PRECAUTIONS

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Arizona Polymer Flooring recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Arizona Polymer Flooring or its sales agents will not be responsible for injury incurred in a slip and fall accident.

Warranty

Arizona Polymer Flooring guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. ARIZONA POLYMER FLOORING MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Arizona Polymer Flooring shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.